



# Navy ERP IUID Implementation Plan

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13 Jan 10 R3B Tasker

"Develop comprehensive plan for Item Unique Identification (IUID)/Serial Number Tracking functionality in Navy ERP. This plan should address issues related to business processes, technical configuration, and impact to feeder systems. Provide plan to PDASN(F&MC)."



# IUID Requirement Background

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- DoDI 4151.19, *Serialized Item Management (SIM) for Material Maintenance,*
  - Mandates Unique Item ID as part of SIM
- DoDI 8320.04, *Item Unique Identification (IUID) Standards for Tangible Personal Property,*
  - Mandates compliance with requirements for IUID marking and registration by 31 December 2015



# Navy ERP Capabilities

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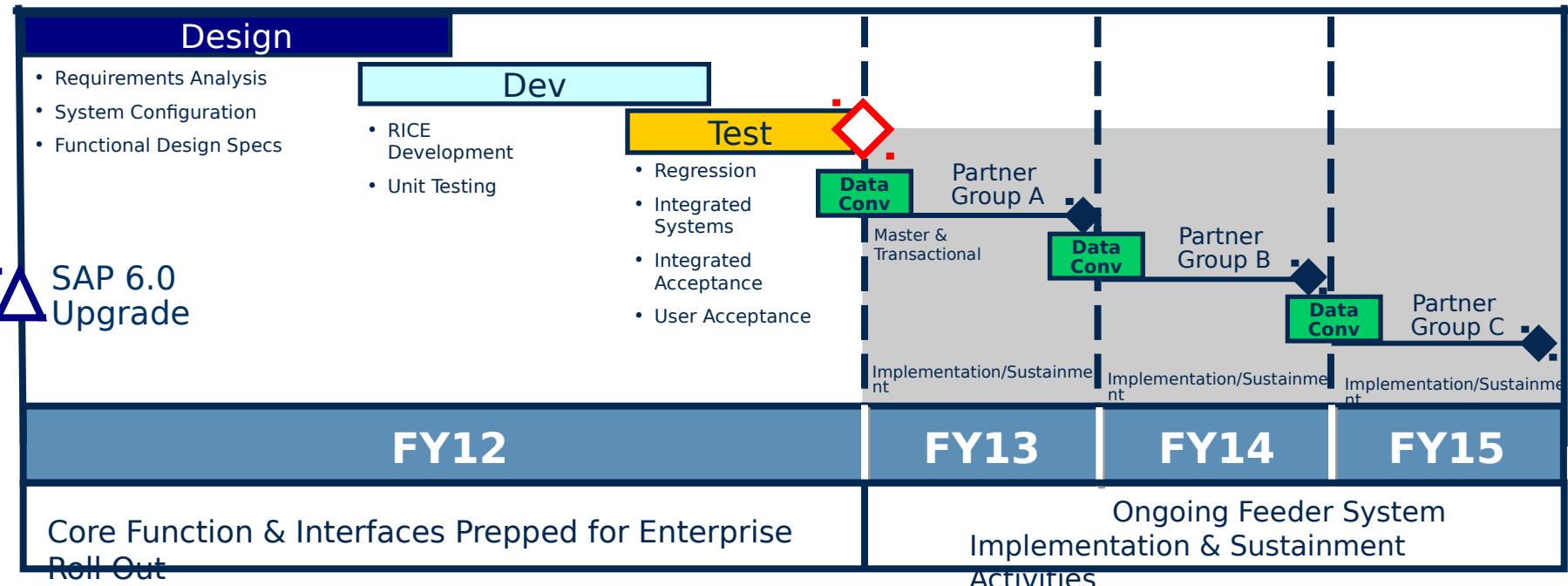
DoD IUID Goals	Navy ERP Current or Planned Capability	POR	ECC 6.0
<b>Data integration across DOD, government, and industry systems</b>	<b>Improved interoperability</b>		X
	<b>Automated IUID Registry Interface</b>		X
<b>Item Management Accountability</b>	<b>ERP's WAWF Interface captures vendor IUID data &amp; creates Serial Number record</b>	X	
	<b>Logistical process support</b>		X
	- Purchase/Receipt		X
	- Storage		X
	- Issue/Sale		X
	<b>- IUID data on shipping documents (material movement)</b>		X
<b>Asset visibility and life-cycle management</b>	<b>Asset life-cycle data capture</b>		X
	<b>Assignment of new or updated IUID over asset life-cycle</b>		X
	<b>IUID Registry Update as asset ownership changes</b>		X

End State Goal: Clean audit opinions on the property, plant, equipment, operating materiel, and supplies portions of DOD financial statements



# IUID Plan Timeline

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- **Functionality**
  - Core ("Out of the Box") functions & Navy ERP interfaces prepped for max use & Enterprise implementation, FY12
  - Partner (Feeder) Automated Information Systems staggered implementation per E-WIPT Change Request, FY13-15
- Note: AIS interface development starts in FY12; Design, Development & Testing external to Navy ERP
- **Requirements (Life-Cycle Item Identification WIPT)**
  - Navy ERP: Engaged with LCII WIPT for implementation requirements in FY10
  - Partner (Feeder) AISs: IUID Implementation Champions members of LCII WIPT



# Navy ERP IUID Implementation Plan

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## FY12 Navy ERP: Navy ERP IUID compliance

- **Design Phase** to include detailed requirements analysis, system configuration of core or “Out of the Box” SAP functionality, and writing the functional Design Specifications (FDS)
- **Development Phase** to include all custom Reports, Interfaces, Conversions & Enhancements (RICE) development and Unit Testing. Owing to the large number, the greatest portion of this work will involve the interfaces development.
- **Test Phase** to include Regression Testing for all the pieces of Navy ERP that are “touched” by IUID functionality as well as Integrated Systems Testing (IST), Integrated Acceptance Testing (IAT) and User Acceptance Testing (UAT).
- **Data Conversion Phase** to include conversion of both Master and Transactional data for each interfacing AIS. Conversion is a critical, multi-step process requiring custom development, multiple mock data loads & detailed data cleansing to ensure the interfacing systems are truly business-ready.

## FYs13-15 Navy ERP: Navy ERP enables Enterprise IUID compliance

- Continue development of interfaces with each AIS to perform the necessary Data Conversion work prior to implementation of IUID functionality. The previously mentioned E-WIPT change request seeks funding over the course of three years to update 21 AIS interfaces to do their “side” of IUID work; namely to send and receive, process and store IUID data and leverage the enterprise IUID capability built into Navy ERP by the FY12 work.



# IUID Cost Estimate Schedule

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FY12	FY13	FY14	FY15
\$18.7M	\$2.1M	\$2.2M	\$2.2M

## Provided Capabilities by Funding

- Asset Life-cycle data capture
- Automated IUID Registry Interface
- Logistics Support: purchase/receipt, issue/sale, storage, movement

## Cost Drivers

- Data Volume (materials and transactions for 65M items)
- Number of systems and implementation dates

## Benchmarking DoD ERP & Legacy Systems

- DLA:
  - EBS (ERP): \$25M
    - Less complex ERP system than Navy ERP
  - DSS: \$10M
    - Legacy AIS Feeder systems
- GCSS-Army: \$25M
  - Legacy AIS Feeder info not available



# Navy ERP Planning Issues

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- Business Processes
  - Comprehensive Business Process Re-engineering required for IUID implementation in Supply Community
- Technical Configuration
  - Details will be determined by Navy ERP Blueprinting effort
- Feeder System Impact
  - DON currently identifies 21 AIS Interfaces
    - Navy ERP currently identifies 3 of these 21
    - Navy ERP identified 7 additional interfaces for potential IUID requirement
  - Separate funding & development to modify each system to:
    - Read, Store & Forward IUID-related data
    - Ensure interoperability of Automated Identification Technology (AIT) infrastructures & data management



# Wider Navy Considerations

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- A comprehensive enterprise-wide (DON/DoD) implementation plan is needed
- Full IUID implementation in Navy ERP enables “Big Navy” IUID compliance